DESCRIPTION OF WORK	unit	N	L	B	D	QTY	RATE	AMOUNT
Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of materials labour curing complete as per specifications Internal wall platering with all lead and lift and directions of the Engineer-In-charge of the work								
Baby pool base	Sq.m	1	7.00	3.75		26.25		
walls		4	7.00	0.60		16.80		
		4	3.75	0.60		9.00		
Compound wall		2	45.00	1.50		135.00		
Balancing tank								
Front side and back side		4	22.00	3.00		264.00		
Cross walls		4	7.00	3.00		84.00		
Center wall		2	3.00	3.00		18.00		
					Total Qty	553.05	335.85	185740.52
Basic rate		257.00						
AD-HOC-21%		53.97						
Total Rs.		310.97						
8% Area weightage		24.88						
Net Total Rs.		335.85						
Providing ACE paint to external walls of approved colour and shade over prime's coat.after blooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)								
	Sq.m							
Compound wall		2	45.00	1.50		135.00		
Balancing tank								
Front side and back side		4	22.00	3.00		264.00		
Cross walls		4	7.00	3.00		84.00		
Center wall		2	3.00	3.00		18.00		
					Total Qty	501.00	180	90180.00
Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/s.cm working pressure 160mm outside diameter, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing, excluding cost of fittings, complete as per specifications. (2 runs)								
Towards retaining walls	Rmt	1	83.00			83.00		
Towards Gallery		1	55.00			55.00		
Behind balancing tank		1	45.00			45.00		
Infront of building		1	15.00			15.00		
Gallery to drain		2	9.00			18.00		
Verticals		30	0.30			9.00		
					Total Qty	225.00	538.40	121140.36
Basic rate		412.00						
AD-HOC-21%		86.52						
Total Rs.		498.52						
8% Area weightage		39.88						
Net Total Rs.		538.40						

DESCRIPTION OF WORK	unit	N	L	B	D	QTY	RATE	AMOUNT
FILTRATION ROOM								
Providing and constructing granite / trap / basalt Size Stone Masonry in cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of maerials, labour, curing with all lead and lifts, hire charges of machinaries, loading, unloading, levelling as per specification and direction of the Engineer-in-charge								
For electrical sub station	No	2	1.50	1.50	2.00	9.00		
					Total Qty	9.00	5275.55	47479.96
Basic rate		4037.00						
AD-HOC-21%		847.77						
Total Rs.		4884.77						
8% Area weightage		390.78						
Net Total Rs.		5275.55						
Providing and fixing pull and push type rolling shutter of approved ake out of 19 guage,75mm wide cold rolled steel laths of conves corrgation, with side guides and bottom rail, with interlaocking arrangements for steel laths by means of alternate clips suspension shaft whith high tension coil type spring two number ,mounted on specially desigend pipe shaft,with bracket two plastes ,guide channels, ball bearning arrangement for inside & out side locking with pus & pull operation complete including pulling hooks,4 nos .Handles with all fitting and accessores, painted with a coat of red paint (withouttop cover) cost of materials,labour,HOM of machinery complete as per								
Balancing tank	Sq.m	2	3.60	3.00	3.00	32.40		
					Total Qty	32.40	3740.06	121178.00
Basic rate		2862.00						
AD-HOC-21%		601.02						
Total Rs.		3463.02						
8% Area weightage		277.04						
Net Total Rs.		3740.06						
Fabricating, supplying & erecting M.S. angular Truss of all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 nos of of M.S. anchor bolts at each support, with base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification								
supports to filter pipe lines	kg	1	1000			1000.00		
					Total Qty	1000.00	152.90	152895.60
Basic rate		117.00						
AD-HOC-21%		24.57						
Total Rs.		141.57						
8% Area weightage		11.33						
Net Total Rs.		152.90						
Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.								
Balancing tank	Sqm	2	7.00	1.30		18.20		
		2	5.00	0.60		6.00		
					Total Qty	24.20	1006.24	24350.91
Basic rate		770.00						
AD-HOC-21%		161.70						
Total Rs.		931.70						
8% Area weightage		74.54						
Net Total Rs.		1006.24						

DESCRIPTION OF WORK	unit	N	L	B	D	QTY	RATE	AMOUNT
Supply, installtion, testing and commissioning of RECIRCULATING PUMPS 10 HP monoblock centrifugal pump 400V 3ph discharge:45 LPS at 13m head suction size:150mm, delivery: 150mm includes 1no standby directions of the Engineer-In-charge of the work								
	No	3				3		
					Total Qty	3	74290.00	222870.00
Supply, installtion, testing and commissioning of FLOOR INLETS bottom inlet for concrete with S.S. screws made of ABS plastic. Max. flow: 10cum/hr 2 inches threaded fitting directions of the Engineer-In-charge of the work								
	No	70				70		
		2				2		
					Total Qty	72	875.00	63000.00
Supply, installtion, testing and commissioning of MAIN DRAIN GRATING COVER, material : SS 304 500mm x 500mmx6mm thick with slot openings of 6mm directions of the Engineer-In-charge of the work								
	No	3				3		
					Total Qty	3	21000.00	63000.00
Supply, installtion, testing and commissioning of SUCTION INLETS ABS plastic, 2 inches external DIA glue type Flow:3.5 cum/hr, with threaded cap directions of the Engineer-In-charge of the work								
main pool	No	70				70		
baby pool		2				2		
					Total Qty	72	875.00	63000.00
Supply, installtion, testing and commissioning of MAINTENANCE KIT COMPRISING OF: a) LEAFE RAKE Deep bag net made in polypropylene and polyester netting butterfly nut connection directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	2000.00	2000.00
Curved brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	2400.00	2400.00
Straight brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	2400.00	2400.00
Reinforced aluminium telescopic handle 2.4/4.8m with clip connection directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	4400.00	4400.00
Metallic Anodized Aluminium Vacuum head directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	19700.00	19700.00
Extensible handles for cleaning attachments in anodized aluminium which can be adapted to the entire range of cleaning equipment, brushes, leaf skimmers and scoops 10m long directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	4375.00	4375.00

DESCRIPTION OF WORK	unit	N	L	B	D	QTY	RATE	AMOUNT
Transparent blue plastic vacuum hose 11/2" dia 30mtr slong including hose cuffs for connection to suction inlets directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	7100.00	7100.00
Supply, installtion, testing and commissioning of POOL CLEANER trolly mounted with 5 Hp self priming pump with prefillter, starter and 63mm flexible hose directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	100000.00	100000.00
Supply, installtion, testing and commissioning of ANCHOR HOOKS STAINLESS STEEL fixed to pool walls for lane ropes directions of the Engineer-In-charge of the work								
	No	20				20		
					Total Qty	20	3300.00	66000.00
Supply, installtion, testing and commissioning of GAS CHLORINATION SYSTEM vacuum type cylinder mounted gas (DCM) chlorinator capacity 0-500 gms/hr, chlorination system consisting of filter Assembly, Vacuum Regulator, flow meter assembly, control valve assembly, injector assembly including booster pump assembly and piping complete directions of the Engineer-In-charge of the work								
	No	1				1		
					Total Qty	1	327750.00	327750.00
Supply, installtion, testing and commissioning of BUTTERFLY VALVES Wafer type PN 10 STD replacable EPDM sleeve CI body with SS316 disc a) 10 INCHES directions of the Engineer-In-charge of the work								
	No	2				2		
					Total Qty	2	26220.00	52440.00
Supply, installtion, testing and commissioning of NON RETURN VALVES Material: gun metal Size: 3 inches directions of the Engineer-In-charge of the work								
	No	3				3		
					Total Qty	3	19700.00	59100.00
Supply, installtion, testing and commissioning of UPVC PIPES a) 400 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work								
From gutter to balancing tank	Rmt	1	8.60			8.60		
Gallery side		1	8.20			8.20		
Returning wall side		1	9.50			9.50		
		1	5.60			5.60		
From filter to inlets		1	13.40			13.40		
outside filter		1	2.00			2.00		
		1	5.70			5.70		
		1	13.00			13.00		
wall to pump		1	4.20			4.20		
		1	1.20			1.20		
pump to filter		1	19.00			19.00		
					Total Qty	90.40	4700.00	424880.00

DESCRIPTION OF WORK	unit	N	L	B	D	QTY	RATE	AMOUNT
MM DIA 10KG/SQCM directions of the Engineer-In-charge of the work								
dia pipe baby pool	Rmt	1	5.00			5.00		
		1	4.00			4.00		
de		2	6.00			12.00		
		2	4.00			8.00		
				Total Qty		29.00	260.00	7540.00
90 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work								
p to filter pipe	Rmt	3	1.90			5.70		
		1	0.10			0.10		
		1	1.40			1.40		
p 2		1	1.80			1.80		
		1	2.20			2.20		
p 3		1	3.00			3.00		
		1	3.00			3.00		
ers		3	0.75			2.25		
		3	1.60			4.80		
		3	3.20			9.60		
		3	1.20			3.60		
		3	0.60			1.80		
		3	0.45			1.35		
er to inlet		3	0.30			0.90		
		3	1.00			3.00		
		3	0.40			1.20		
ack wash		3	0.75			2.25		
		3	1.60			4.80		
		3	3.20			9.60		
om balancing tank to retaining wall		1	10.00			10.00		
		1	0.70			0.70		
		1	0.70			0.70		
taining wall to drain		1	24.00			24.00		
verflow pipe		1	23.00			23.00		
om balancing tank to retaining wall		1	10.40			10.40		
				Total Qty		131.15	13100.00	1718065.00
Supply, installtion, testing and commissioning of UPVC ELBOW 6 KG/SQCM								
400 MM directions of the Engineer-In-charge of the work								
om main drain to balancing	No	1				1		
om gutter to balancing pumphouse		2				2		
		1				1		
let lines		3				3		
pump		2				2		
				Total Qty		9	26800.00	241200.00

DESCRIPTION OF WORK	unit	N	L	B	D	QTY	RATE	AMOUNT
63 MM directions of the Engineer-In-charge of the work								
baby pool inlet	No	2				2		
or pumping & filtration		3				3		
				Total Qty		5	175.00	875
Supply, installtion, testing and commissioning of STARTING BLOCKS FIBREGLASS 400 mm eight non slip finish 0.5x 0.5m with nos 1 to 9 with anchoring fixtures directions of the Engineer-In-charge of the work								
	No	1				1		
				Total Qty		1	26220.00	26220.00
Providing supplying chlorin granules								
	kgs	1		1000.00		1000.00		
				Total Qty		1000.00	600.00	600000.00
Providing supplying filter media using quarzite stones crushed into 0 to 4mm and filling the same into exisisting filters								
	kgs	3		5000.00		15000.00		
				Total Qty		15000.00	27.00	405000.00
Supply filling portable water to main pool and baby pool								
	ltr	1				2000000		
				Total Qty		2000000	0.10	200000.00
Providing and laying Flooring using pre polished water cut/gang saw 19mm thick grey granite laid over bed of 20mm thick 1:4 cm and jointed with neat cement slutty mixed with pigment to match shade of granite slabs including laying POP on finished surfaqce and cleaning the surface including the cost of all m,aterials and laboutsd etc. complete as per specifications. with all lead and lift and directions of the Engineer-In-charge of the wor								
For gutter bottom	Sq.m	2.00	50.00	0.40		40.00		
For gutter side walls		4.00	50.00	0.37		74.00		
For gutter top walls		2.00	50.00	0.35		35.00		
deep end and shallow end walls		2.00	35.00	0.38		26.25		
steps		4.00	4.75	0.50		9.50		
baby pool alround		1.00	22.00	0.37		8.14		
gallery side and retaining wall side		2.00	50.00	0.30		30.00		
steps at balancing tank		4.00	2.00	0.60		4.80		
		4.00	2.00	0.15		1.20		
Basic rate		1986.00						
AD-HOC-21%		417.06						
Total Rs		2403.06						
8% Area weightage		192.24						
Net Total Rs		2595.30				228.9		
				Total Qty		228.89	2595.30	594038.22
Supply, installtion, testing and commissioning of STAINLESS STEEL LADDERS made of SS 316 with pipe dia 38mm with non skid steps with embossed finish or checkered finish overflow model No of steps = 3 directions of the Engineer-In-charge of the work								
main pool	No	2				2		
baby pool		2				2		
				Total Qty		4	51750	207000.00
No of steps = 4 directions of the Engineer-In-charge of the work								
main pool	No	2				2		
				Total Qty		2	55315	110630.00

DESCRIPTION OF WORK	unit	N	L	B	D	QTY	RATE	AMOUNT
viding and fixing factory made splendor of solid core single leaf rigid composite polymer inated seal wood ,door.shutter of required thickness,manufactured out of solid core door nfirming to IS 2202(part-1)1991,laminated with 0.8mm thick polymer termite water resistant and e retrardant with superior gluring based on vaccum lamination technology and with various pre ulded design on both faces confirming to IS 6307-1985,USING Adeshive confirming to IS 4835-79 and door shutters tested in confirming to IS 4020-1994 The finish of shutters will be EAK/CEDAR/ROSE/,WOOD/WALNUT plain colours. WHITE /IVORY/BEIGE IGHTGREY.Excluiding cost of fixtures and inclusive of suppley of shutters to respective work oot 9.93 with door shutter 35mm thick								
	Cu.m	5	1.20		2.10	12.60		
asic rate	3650.00							
D-HOC-21%	766.50							
otal Rs.	4416.50							
8% Area weightage	353.32							
Net Total Rs.	4769.82							
					Total Qty	12.60	4769.82	60099.732
							Total	17847724.82
							KRIDL CHARGES 11%	1963249.73
							PMC CHARGES	178477.2482
							misellinious	10548.20
							Grand Total	20000000.00

CERTIFICATES

The work spot has been inspected and found to be necessary

The rates in the Estimate is based on PWD SR 16-17,PWD & AD-HOC Ratesand Elec SR of 2014-15 Rates

The provisions were made in this estimate are necessary and adequate.

This works come under B.B.M.P. limits.

Asst. Engineer 22/02/18.

Asst. Executive Engineer
Project sub dividion
Yalahanka zone BBMP

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Project sub dividion
Yalahanka zone BBMP
22/2/18

Administrative Approval

Accorded For Rs. 200.00 lakhs
Head of A/C P-0190
CER NO :178/12-18 Dt: 22/2/2018

E.E. (Project)
22/2

Technical Sanction

Accorded For Two hundred lakhs only
Head of A/C P0190
CER NO TS/801/12-18 Dt 26.02.18

TA
CE (YNK)